

**78 Pleasant Avenue, South Portland, ME****REPORT OF ANALYSIS**

Vessel Emerald Star  
Port/Terminal Sprague, Portsmouth, NH  
Sprague Reference V-08-00477  
ICB Reference US380-0001041  
Date Sample Taken 03/12/08  
Date Submitted 03/12/08  
Date Tested 03/12/08  
Sample Designated # 6 Fuel Oil (2.0%)  
Drawn By Intertek Caleb Brett  
Representing Tk. 1, After Discharge

Slate **A**

Test	Method	Results	Units
Gravity	ASTM D 4052	13.4	API @ 60F
Viscosity at 122 F	ASTM D 445/2161	550.3 / 259	cSt / SFS
Flash Point (PMCC)	ASTM D 93B	>200	F
Pour Point	ASTM D 97	+6 / +43	C/F
Sediment & Water by Centrifuge	ASTM D 1796	0.50	% Volume
Sulfur	ASTM D 4294-98	0.672	% Weight
Ash	ASTM D 482	0.053	Weight %
Water by Distillation	ASTM D 95	0.1	% Volume
Sediment by Extraction	ASTM D 473	0.05	% Weight
Heat of Combustion	ASTM D-240	18,639	Btu/lb
Gravity	Table 8	8.133	lb./gal
Heat of Combustion	ASTM D-240	151,591	Btu/gal
Nitrogen	ASTM D-5762	0.45	Weight %
Vanadium	ASTM D-5863B	9	ppm
Sodium	ASTM D-5863B	2	ppm
Aluminum	ASTM D-5184B	107	ppm
Silicon	ASTM D-5184B	112	ppm
Asphaltenes	IP-143	0.86	Weight %
Conradson Carbon Residue	ASTM D-189	12.1	Weight %

Michael Holland, Lab Supervisor  
**Intertek Caleb Brett, South Portland, ME**

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